

**IN THE CLAIMS**

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method for producing a heat exchanger elements ~~-(8)-comprising~~ including ~~-a fibrous mat~~ and at least one heat exchanging conduit ~~-(2)-for a heat exchanging medium, wherein the heat exchanger element~~ ~~-(8)is~~ ~~-being~~ panel shaped, thus comprising and includes two main surfaces ~~-(7)-averted from each other and a peripheral surface~~ ~~-(6)-which connects~~ ing the main surfaces, characterized in that the method comprising:  
applying to the ~~-at least one heat exchanging conduit~~ ~~-(2) is laid onto a fibrous mat,~~ -(1), at one main surface, and a cast mass, in the form of at least one layer of a cast coating ~~-(3) is applied to the fibrous mat~~ ~~-(1)-; and~~  
laying onto the fibrous mat, at the one main surface, so that the at least one heat exchanging conduit, wherein a thickness of the at least one cast coating layer is in the range of 2 to 8 mm and the ~~-(2) extends~~ at least partially one heat exchanging conduit is contained at least partially in the at least one cast coating layer ~~-(3), and wherein the~~ at least one cast coating layer, ~~cast coating~~ ~~-(3) together with the at least one heat exchanging conduit,~~ -(2) adheres to the fibrous mat ~~-(1).~~
2. (Currently Amended) Method as claimed in claim 1, ~~characterized in that~~ wherein at least a second layer ~~-(3b)-~~

of the at least one cast coating (3) layer, ~~having a~~  
~~different grain proportion as compared with the at least~~  
~~one cast coating first layer, (3a) is applied, the first~~  
~~layer (3a) having preferably a coarser grain as compared~~  
~~with the second layer (3b) and particularly a smaller~~  
~~density.~~

3. (Currently Amended) Method as claimed in claim 1 ~~or 2~~,  
~~characterized in that wherein the a grain proportion of the~~  
~~at least one layer is cured to a substantially solid cast~~  
~~coating (3) when a bonding agent is cured.~~

4. (Currently Amended) A heat exchanger element ~~(8) being~~  
~~panel shaped, including two main surfaces averted from~~  
~~each other and a peripheral surface connecting the main~~  
~~surfaces, comprising:~~  
~~comprising~~ a fibrous mat;  
at least one layer of a cast coating and at least  
one heat exchanging conduit at least one heat exchanging  
conduit (2) for a heat exchanging medium at one main  
surface, the element (8) being panel shaped, thus  
~~comprising two main surfaces (7) averted from each other~~  
~~and a peripheral surface (6) which connects the main~~  
~~surfaces, characterized by the production by a method~~  
~~according to claim 1, wherein a thickness of the element~~  
~~(8) comprises a fibrous mat (1) and a cast coating (3),~~  
~~which is in the range of 2 to 8 mm and the cast coating~~  
~~(3) adheres to the fibrous mat (1), while the at least one~~  
~~heat exchanging conduit (2) extends is contained at least~~  
~~partially in said the cast coating, and wherein the cast~~  
~~coating (3) together with the at least one heat exchanging~~  
~~conduit adheres to the fibrous mat and includes at least~~  
~~two branch necks (2a) in the region of the peripheral~~  
~~surface (6).~~

5. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in claim 4, wherein the at least one heat exchanging conduit includes at least two branch necks characterized in that, and wherein each branch neck at least one of (2a) comprises includes a flexible plastic pipe and ~~is connectable to a flexible plastic pipe,~~ so that each branch neck ~~(2a) may be connected~~ is connectable to the branch neck ~~(2a) of at least one of an adjacent heat exchanger element (8) or~~ and to a connection conduit ~~(14, 15).~~
6. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in claim 4 ~~or 5~~, wherein characterized in that the fibrous mat ~~(1) has a thickness of at least 25 mm, optionally in a range of 30, but particularly in a range of 60 mm, and comprises preferably glass fibers, rock wool, silicate fibers or fibers of plastic material.~~
7. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in ~~any of claims 4 to 6~~, wherein characterized in that the cast coating ~~(3) comprises~~ includes ~~at least a grain proportion and a bonding agent, but preferably~~ two layers of different grain proportions, particularly including a first layer (3a) adjacent to the fibrous mat (1), which has a coarse grain and, optionally a smaller density, and a second layer (3b) applied to said first layer, wherein the second layer includes (3a) comprising a relatively finer grain and is being particularly of a relatively higher density than the first layer.
8. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in ~~any of claims 4 to 7~~, characterized in that wherein the cast coating includes at least one of ~~includes~~ has a thickness of 2 to 8 mm, preferably of 3 to 6 mm, and ~~or~~

~~that the cast coating comprises~~includes an aluminum hydroxide, ~~particularly aluminum orthohydroxide.~~

9. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in ~~any of claims 4 to 8, characterized in that~~wherein the at least one cast coating layer includes ~~a relatively coarser grain than the second layer and wherein the grain proportion comprises an average grain proportion comprises~~ grains of an average particle size in the range of 0.1 to 0.5 mm, ~~but preferably of 0.25 to 0.3 mm, the particle sizes varying, in particular, in the range of 0.1 to 0.5 mm, but preferably from 0.2 up to 0.4 mm.~~
10. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in ~~any of claims 4 to 9, characterized in that~~wherein the at least one heat exchanging conduit ~~(2)~~ has~~includes~~ an inner diameter of 0.8 to 5mm, ~~preferably substantially 1 to 3mm,~~ and is ~~particularly formed of~~ at least one of plastic material, ~~but optionally~~ and of metal, at least in part.
11. (Currently Amended) Heat exchanger element ~~(8)~~ as claimed in ~~any of claims 4 to 10, characterized in that~~wherein the heat exchanging conduit ~~(2)~~ extends substantially tangentially to said peripheral surface ~~(6)~~.
12. (Currently Amended) A method for assembling heat exchanger elements ~~(8)~~ as ~~elaimed in any of claims 4 to 10,~~ ~~characterized in that~~ including a fibrous mat and at least one heat exchanging conduit for a heat exchanging medium, the heat exchanger elements being panel shaped and including at least two main surfaces averted from each other and a peripheral surface connecting the main surfaces, the method comprising:

attaching at least two heat exchanger elements  
~~(8) joining adjacent to each other, are attached to a room~~  
~~delimiting surface (9),;~~

connecting ~~that the~~ at least two branch necks (2a)  
of a heat exchanger element (8) ~~are connected to a heat~~  
~~exchanger circuit; and, that~~

applying at least one covering element (12) is  
~~mounted joining a heat exchanger element (8), and that a~~  
~~cast mixture is applied at least in the region of gaps~~  
~~(13) so that a substantially flat cast surface is~~  
~~obtained, wherein a thickness of the cast coating is in~~  
~~the range of 2 to 8 mm and the at least one heat~~  
~~exchanging conduit is contained at least partially in the~~  
~~cast coating, and wherein the cast coating together with~~  
~~the at least one heat exchanging conduit, adheres to the~~  
fibrous mat.

13. (Currently Amended) Method as claimed in claim 12,  
~~characterized in that wherein~~ the uncoated main surfaces  
~~(7) of the fibrous mats (1), for fastening the heat~~  
~~exchanger elements (8), are glued to said room delimiting~~  
~~surface (9), wherein and~~  
in a first step, a first row of heat exchanger elements  
    (8) are fastened with their first lateral surfaces  
    situated side by side,  
in a second step, holding elements (18) are mounted to  
    join the second side surfaces,  
in a third step, a second row of heat exchanger elements  
    (8) are fastened so as to join said holding elements  
    (18) and their first side surfaces engaging each other,  
in a fourth step, the two branch necks (2a) of each heat  
    exchanger element (8) are connected to a heat exchanger  
    circuit,  
in a fifth step, ~~the covering elements (12) are arranged~~  
    ~~at the holding elements (18),~~

~~in a sixth step, the~~ a cast mixture is applied at least in  
~~the region of the gaps (13),~~  
and  
~~preferably in a seventh~~ sixth step, a flat surface is  
~~obtained by grinding, and~~  
~~whereon in a seventh step, a cover coating (3c) is~~  
~~optionally applied in an eighth step.~~

14. (Currently Amended) Method as claimed in claim 12,  
~~characterized in that~~ wherein the uncoated main surfaces  
~~(7) of the fibrous mats (1), for fastening the heat~~  
~~exchanger elements (8), are glued to said room delimiting~~  
~~surface (9), wherein~~  
in a first step, a first row of heat exchanger elements  
~~(8) are fastened with their first lateral surfaces~~  
~~situated side by side, while spacer elements project~~  
~~from their second lateral surfaces,~~  
in a second step, a second row of heat exchanger elements  
~~(8), their first lateral surfaces engaging each other,~~  
~~are fastened so that they join said second lateral~~  
~~surfaces and are spaced by spacer elements,~~  
in a third step, the two branch necks ~~(2a) of each heat~~  
~~exchanger element (8) are connected to a heat exchanger~~  
~~circuit,~~  
in a fourth step, ~~the~~ covering elements ~~(12) are arranged~~  
~~at the spacer elements (18),~~  
in a fifth step, ~~the~~ a cast mixture is applied at least in  
~~the regions of~~ with ~~the gaps (13), and~~  
~~preferably in a sixth step, a flat surface is obtained by~~  
~~grinding, and~~  
~~whereon in a seventh step, a cover coating (3c) is~~  
~~optionally applied in an seventh step.~~

15. (Currently Amended) Method as claimed in claim 12,  
~~characterized in that~~ wherein, for fastening heat exchanger

elements ~~(8)~~ comprising two parallel extending longitudinal channels ~~(22)~~ and at least one conduit ~~(2)~~ that interconnects said longitudinal channels ~~(22)~~, the uncoated main surface ~~(7)~~ of at least one fibrous mat ~~(1)~~ is glued to said room delimiting surface ~~(9)~~, at least one further element ~~(8)~~ having a layer of glue and which is oriented towards said room delimiting surface ~~(9)~~ and is placed towards another element ~~(8)~~, which has already been mounted, under a small angle to the room delimiting surface ~~(9)~~, two male parts ~~(21a)~~ are plugged into corresponding female parts ~~(21b)~~, and subsequently the connected element ~~(8)~~ having the gluing layer is fixed on said room delimiting surface.

16. (New) Method as claimed in claim 2, wherein the at least one cast coating layer includes a relatively coarser grain and a relatively smaller density than the second layer.
17. (New) Method as claimed in claim 2, wherein a grain proportion of the at least one layer is cured to a substantially solid cast coating when a bonding agent is cured.
18. (New) Method as claimed in claim 16, wherein a grain proportion of the at least one layer is cured to a substantially solid cast coating when a bonding agent is cured.
19. (New) Heat exchanger element as claimed in claim 6, wherein the fibrous mat has a thickness in a range of 30 mm and includes at least one of glass fibers, rock wool, silicate fibers and fibers of plastic material.

20. (New) Heat exchanger element as claimed in claim 6,  
wherein the fibrous mat has a thickness in a range of 60  
mm and includes at least one of glass fibers, rock wool,  
silicate fibers and fibers of plastic material.
21. (New) Heat exchanger element as claimed in claim 4,  
wherein the at least one cast coating layer includes  
grains of an average particle size in the range of 0.25 to  
0.3 mm.
22. (New) Heat exchanger element as claimed in claim 4,  
wherein the at least one cast coating layer includes  
grains with particle sizes varying, in particular, in the  
range of 0.1 to 0.5 mm.
23. (New) Heat exchanger element as claimed in claim 4,  
wherein the at least one cast coating layer includes  
grains with particle sizes varying, in particular, in the  
range of 0.2 to 0.4 mm.
24. (New) Heat exchanger element as claimed in claim 4,  
wherein the at least one heat exchanging conduit includes  
an inner diameter of 1 to 3mm and is formed of at least  
one of plastic material and of metal, at least in part.
25. (New) Method as claimed in claim 13, wherein  
in a sixth step, a flat surface is obtained by grinding,  
and  
in a seventh step, a cover coating is applied
26. (New) Method as claimed in claim 14, wherein  
in a sixth step, a flat surface is obtained by grinding,  
and  
in a seventh step, a cover coating is applied



27. (New) A room delimiting structure, comprising:
- heat exchanger elements, each including
    - a fibrous mat, and
    - at least one heat exchanging conduit for a heat exchanging medium, wherein the heat exchanger elements are panel shaped and include two main surfaces averted from each other and a peripheral surface connecting the main surfaces, wherein
      - at least two heat exchanger elements are attached adjacently to each other to a room delimiting surface,
      - at least two branch necks of each heat exchanger element are connected to a heat exchanger circuit, and
      - a cast mixture is applied so that a substantially flat cast surface is obtained, wherein the thickness of the cast coating layer is in the range of 2 to 8 mm and the at least one conduit is contained in the cast coating, and the cast coating together with the at least one heat exchanging conduit adheres to the fibrous mat.